

1980 Census of Population and Housing Journey-to-Work. Technical Documentation

D1-D80-WORK-14-TECH

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Additionally, Census Bureau organization, telephone numbers, and staff cited in this technical documentation are not current. For updated information, see our Telephone Contacts site at <http://www.census.gov/contacts/www/contacts.html> or Staff Search at <http://www.census.gov/cgi-bin/main/email.cgi>.

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Census of Population, 1980:
Journey-To-Work File

Technical Documentation

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NOTE

Questions about the documentation should be directed to Data User Services Division, Data Access and Use Staff, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-2074.

Questions about the tape should be directed to Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-4100.

Questions about the subject matter should be directed to Population Division, Bureau of the Census, Washington, D.C. 20233. Phone: (301) 763-3850.

Attachment 1

Abstract

Census of Population, 1980: Journey-To-Work [machine-readable data file] / prepared by the Bureau of the Census. -- Washington: The Bureau [producer and distributor], 1985.

TYPE OF FILE

Summary statistics.

UNIVERSE DESCRIPTION:

All persons 16 years old and over in the United States who were employed and at work during the census reference week.

SUBJECT-MATTER DESCRIPTION:

This special subject summary tape file provides sample data on journey to work (place of residence by place of work) characteristics arranged in sixteen (16) tables. Subject items include: sex by household relationship, age (5 groups), race (white, black, other), Spanish origin, occupation (8 categories), industry (11 categories), class of worker, earnings in 1979 (9 categories), means of transportation (13 categories), aggregate travel time to work in minutes, and workers with a public transportation disability.

GEOGRAPHIC COVERAGE:

The file contains records for residence to work flows for all central cities, for places of 25,000 or more population, and, in New England, for minor civil divisions (MCD's). Each record also contains numeric codes for State, SMSA, and county of residence and work. Places and MCD's are identified by numeric codes only; no alphabetic name field is provided. Area names can be taken from the Geographic Identification Code Scheme (GICS) file or Master Area Reference File (MARF) 2.

TECHNICAL DESCRIPTION:

FILE STRUCTURE: Rectangular.

FILE SIZE: 195,757 records (2,046 characters each).

FILE SORT SEQUENCE: Places (followed by MCD's in New England) in numeric code order by State.

RELATED PRINTED REPORTS:

PC80-2 Subject Reports

6C "Journey-to-Work: Metropolitan Commuting Flows." \$14.

S/N 003-024-05652-6.

8D "Journey To Work--Characteristics of Workers in Metropolitan Areas":

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Attachment 2
Record Description

<u>Name</u>	<u>Begin</u>	<u>Size/ Scale</u>	<u>Characters</u>	<u>Description</u>
FILEID	1	5	1-5	(Always = STF01 on this file)
FILL	6	4	6-9	Blank
SMLV	10	2	10-11	Summary Level 49 Place to place flow 50 Place to MCD flow (only present if such a flow occurred, and only for persons living outside New England and working in New England) 51 MCD to MCD flow
FILL	12	20	12-31	Blank
STATEGEO	32	2	32-33	Census State Code of Residence 11-95 State code
STATE	34	2	34-35	FIPS State Code of Residence 01-56 FIPS State code
SMSA	36	4	36-39	FIPS SMSA Code of Residence 1-9997 FIPS SMSA code 9998 Not in SMSA
COUNTY	40	3	40-42	FIPS County Code of Residence
MCD	43	3	43-45	MCD Code of Residence 000 Not an MCD record 001-999 MCD code, New England only
PLACE	46	4	46-49	Census Place Code of Residence ^{1/} 1-9997 Census place code 9998 MCD record (SMLV=51) 9999 Remainder of county (i.e., not in a qualifying place)
FILL	50	47	50-96	Blank
SEQOIB	97	6	97-102	(Always = 001001 on this file)
FILL	103	3	103-105	Blank

- ^{1/} For summary level 49 and 50 records only; the following types of residence places are identified in this field on this file:
- a) all central cities of SMSAs (including both incorporated places and census designated places, or CDPs)
 - b) all incorporated places of 25,000 or more population
 - c) all whole-town CDPs of 25,000+ population in the 9 Northeastern states
 - d) all CDPs in Hawaii of 25,000+ population

<u>Name</u>	<u>Begin</u>	<u>Size/ Scale</u>	<u>Characters</u>	<u>Description</u>
PLACEDES	106	1	106	Place Description of Residence 1 Incorporated CC of SMSA, but not UA 2 Incorporated CC of UA, but not SMSA 3 Incorporated CC of UA and SMSA 4 Other incorporated place of 25,000+ 5 Not in a place, or in a place or CDP with less than 25,000 pop. B CDP that is CC of UA and SMSA E CDP that is coextensive with an MCD or county G CDP in Hawaii
FILL	107	40	107-146	Blank
STATEW	147	2	147-148	FIPS State Code of Workplace 1-56 FIPS state code 97 Place of work not reported 98 Specified foreign country 99 Elsewhere outside U.S.
SMSAW	149	4	149-152	FIPS SMSA Code of Workplace 1-9997 FIPS SMSA code 9998 Not working in an SMSA 9999 Unspecified (New England only; place of work not coded to enough detail to identify SMSA)
COUNTYW	153	3	153-155	FIPS County Code of Workplace 000 Elsewhere outside U.S. (ST=99), or place of work not reported (ST=97) 1-999 FIPS county code (ST=1-56) 302 Canada (ST=98) 436 Mexico (ST=98)
MCDW	156	3	156-158	MCD Code of Workplace 000 Non MCD designation 1-999 MCD code in New England
PLACEW	159	4	159-162	Census Place Code of Workplace ^{2/} 1-9997 Census place code 9998 MCD summary (SMLV=50 or 51) 9999 Not in a qualifying place
CBD	163	1	163	Central Business District (CBD) 1 Workplace located in CBD 2 Workplace not in CBD
FILL	164	89	164-252	Blank

^{2/} For summary level 49 records only; the types of work places identified in this field on this file are the same as the residence places given in

<u>Name</u>	<u>Begin</u>	<u>Size/ Scale</u>	<u>Characters</u>	<u>Number of Cells</u>	<u>Description</u>
TABLE-1	253	9	253-261	1	Total workers 16+ in commuter flow
TABLE-2	262	9	262-333	8	<u>Sex by household relationship</u> (1) Male, spouse present (2) Male, no spouse present (3) Male, other household member (4) Male, in group quarters (5) Female, spouse present (6) Female, no spouse present (7) Female, other household mem. (8) Female, in group quarters
TABLE-3	334	9	334-378	5	<u>Age</u> (1) Workers 16 to 19 (2) Workers 20 to 24 (3) Workers 25 to 54 (4) Workers 55 to 64 (5) Workers 65 years and over
TABLE-4	379	9	379-387	1	Workers with one or more years of college
TABLE-5	388	9	388-414	3	<u>Race</u> (1) White workers (2) Black workers (3) Workers of other races
TABLE-6	415	9	415-423	1	Workers of Spanish Origin
TABLE-7	424	9	424-432	1	Civilian workers
TABLE-8	433	9	433-504	8	<u>Occupation</u> (1) Managerial/Professional (003-199) (2) Technicians (203-235) (3) Sales (243-285) (4) Administrative support (303-389) (5) Service (403-469) (6) Farming/Forestry (473-499) (7) Precision Production, Craft, and Repair (503-699) (8) Operators, Fabricators, and Laborers (703-889)

<u>Name</u>	<u>Begin</u>	<u>Size/ Scale</u>	<u>Characters</u>	<u>Number of Cells</u>	<u>Description</u>
TABLE-9	505	9	505-603	11	<u>Industry</u>
(1)					Construction (60)
(2)					Manufacturing (100-392)
(3)					Transportation (400-472)
(4)					Wholesale trade (500-571)
(5)					Retail trade (580-691)
(6)					Finance, Insurance, and Real Estate (700-712)
(7)					Business and repair services (721-760)
(8)					Personal services (761-791)
(9)					Professional and related services (812-892)
(10)					Public Administration (900-932)
(11)					All other industries not classified above (0-50, 800-802)
TABLE-10	604	9	604-612	1	Armed Forces workers
TABLE-11	613	9	613-657	5	<u>Class of Worker</u>
(1)					Private wage and salary
(2)					Federal government
(3)					State and local government
(4)					Self-employed workers
(5)					Unpaid family workers
TABLE-12	658	9	658-666	1	Part-time workers (worked between 1 and 34 hours during the reference week)
TABLE-13	667	9	667-747	9	<u>Earnings in 1979</u>
(1)					\$1 to \$3,999 or loss
(2)					\$4,000 to \$5,999
(3)					\$6,000 to \$7,999
(4)					\$8,000 to \$9,999
(5)					\$10,000 to \$14,999
(6)					\$15,000 to \$19,999
(7)					\$20,000 to \$24,999
(8)					\$25,000 to \$49,999
(9)					\$50,000 or more

<u>Name</u>	<u>Begin</u>	<u>Size/ Scale</u>	<u>Characters</u>	<u>Number of Cells</u>	<u>Description</u>
TABLE-14	748	9	748-864	13	<u>Means of Transportation</u>
(1)					Drive alone
(2)					In a 2-person carpool
(3)					In a 3-person carpool
(4)					In a 4-person carpool
(5)					In a 5-person carpool
(6)					In a 6-person carpool
(7)					7 or more in carpool
(8)					Bus or streetcar
(9)					Subway, elevated train, or railroad
(10)					Other public transportation
(11)					Walked only
(12)					Other means
(13)					Worked at home
TABLE-15	865	9	865-891	3	<u>Aggregate travel time to work in minutes</u>
(1)					By a car, truck, or van
(2)					By public transportation
(3)					By other means
TABLE-16	892	9	892-900	1	Workers in flow with a public transportation disability
FILL	901	1146	901-2046	RA	Blank

ATTACHMENT 3

Differences Between Published Figures and Figures Obtainable From This File

This file is a least common denominator (LCD) file that was created to meet the requirements of the 1980 Census Volume 2 Subject Reports on journey to work (PC80-2-6C, PC80-2-6D, PC80-2-6E). Since the file was specifically designed to produce data for the publications and not intended as a general purpose public use file, certain aspects of the file require explanation.

The file contains three types of records, differentiated by summary level code (SMLV). The summary level codes present on the file are SMLV 49 (place-to-place flows for the whole U.S.), SMLV 50 (place outside New England-to-MCD in New England), and SMLV 51 (MCD in New England-to-MCD in New England). As noted, data covering the entire U.S. are only obtainable by aggregating SMLV 49 records. The other two summary levels contain data for only part of the country, and in fact, may duplicate data found in SMLV 49 records. As a result, this file allows the following types of data to be produced:

- 1) Data for places of residence by places of work (county remainders are treated as pseudo places; see footnote 1 of the file documentation for the definition of places). Only place-level data are obtainable from SMLV 49 records, and in general, data for higher-level geographic areas (e.g., counties, SMSAs, or the entire U.S.) should be built up from these SMLV 49 records.
- 2) Data for MCDs of work in New England by places of residence outside New England. These SMLV 50 records are presented primarily to make possible the production of at-work totals for New England MCDs (in combination with SMLV 51 records). These figures generally duplicate SMLV 49 records, except that at this level the destinations are MCDs, not places.
- 3) Data for MCDs of residence by MCDs of work. These summary level 51 records are presented to provide flow data between MCDs in New England, since the places identified in SMLV 49 records do not equate with MCDs. These figures overlap somewhat with the SMLV 49 data in that some places are coextensive with MCDs, or an MCD may be comprised of several identified places.

However, it should be noted that there is one component of MCD-related flows that is not contained on this file (because it was not needed in the publications). Missing from the file are flows from MCDs in New England to destinations outside New England; they are not included in either of the two summary levels containing MCD-level data. Thus, if residents of an MCD worked outside New England, the user will not be able to calculate the total number of resident workers living in that MCD. Although the trips to New England destinations will be accessible through SMLV 51 records, the non-New England places of work are not included. Through the use of SMLV 50 and 51 records, however, the user will be able to calculate the number of persons who work in each MCD, and of course the total number of resident workers living in each identified place (or remainder of county) in New England is available at the 49 summary level.

Suppression

Some of the places of residence (i.e., cities) that meet the criteria to be identified on this file (see footnote 1 of file documentation) straddle county boundaries, and are thus made up of two or more county parts. In some instances, some of these county parts have too few residents to pass Census Bureau requirements concerning confidentiality, and the data have therefore been suppressed. However, the procedure employed to suppress data on this summary tape file differs from that employed in the Volume 2 Journey-to-Work reports (PC80-2-6C, PC80-2-6D, PC80-2-6E). As a result, inconsistencies may be found between data generated from this summary tape and the published data.

In the published reports, suppression was implemented by changing the place codes on the records in question from the particular county part of the place requiring suppression to the remainder of the county place code (9999). This means that the county totals contained in the 6C-6D-6E reports are correct, and agree with the county totals published in General Social and Economic Characteristics and in Census Tracts, although at the sub-county level some inconsistencies may be noted among the figures in the three series.

Suppression on the journey-to-work summary tape did not involve changing records from being inside a place to being in the remainder of the county, however. The suppression was implemented on the summary tape by deleting those records of persons living in the county parts of places requiring suppression. Thus, the county totals developed from the summary tape will not agree with those contained in 6C, 6D, 6E, General Social and Economic Characteristics, and Census Tracts. Furthermore, inconsistencies will be found among the products at the sub-county level for incorporated places and/or census designated places (CDPs), since the records that have been deleted from the summary tape were included in the place data in the reports.

The counties containing cities for which data have been suppressed are listed below, along with the total number of workers living in the county listed in the 6C, 6D, 6E reports and obtainable from this summary tape file. Questions concerning these data should be referred to the Journey-to-Work and Migration Statistics Branch at (301) 763-3850.

<u>County</u>	<u>Number of Resident Workers</u>	
	<u>6C-6D-6E</u>	<u>J-t-W Tape</u>
Du Page Co., IL	335,563	335,556
Will Co., IL	135,375	135,369
Montgomery Co., TX	56,431	56,423
Winnabago Co., WI	59,826	59,822